



1LH SERIES
VARIABLE FREQUENCY DRIVE
Low Harmonic | Phase Converting



SINGLE-PHASE

The Leader In Low Harmonic VFDs **GUARANTEED**



Active Front End Technology

- Guaranteed IEEE 519 compliant without additional harmonic filters*

AUXPOWER™

- Balanced power for an entire irrigation system from one enclosure
- 95% efficient

PERFECT PRESSURE™

- Setup constant pressure in minutes
- Large backlit graphic display with intuitive menus
- Messages in clear English

Industry Best Lead Times

- 3 to 10 business days

Voltage Doubling Output

- Eliminates the need for transformers while minimizing load wire size

Superior Heat Rejection

- Unique design maximizing component life and minimizing downtime

Expanded Enclosure Options



ENTERPRISE

5 HP to 30 HP

Phase Technologies' most value driven product to date.

- Compact Design
- Best Value
- Shortest Lead Times (3-5 business days)



SIGNATURE

20 HP to 100 HP

Signature enclosures offer rugged performance & excellence in quality.

- Slim & Light Design
- Lower Cost
- Shorter Lead Times (3-7 business days)



PERFORMANCE

20 HP to 125 HP

The Performance enclosures offer a large sub-panel with ample space for a multitude of integrated options.

- Rugged
- Spacious
- Simple Equipment Integration
- **AUXPOWER™** Option
- Lead Times (5-10 business days)

*Our Guarantee

IEEE 519 Compliance

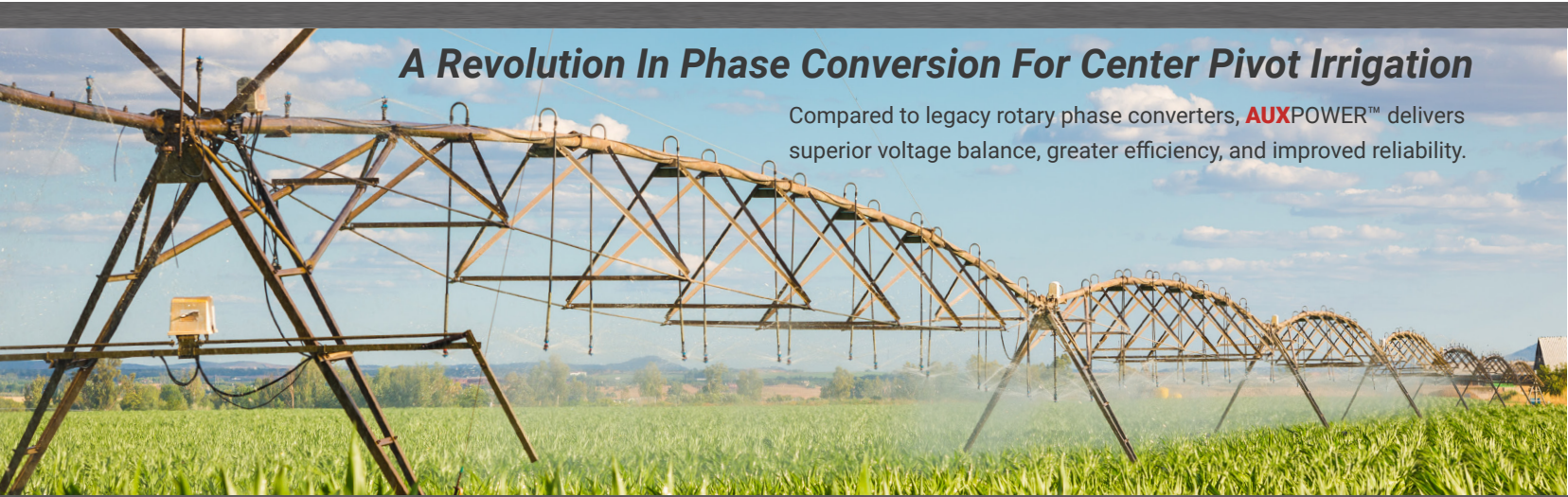
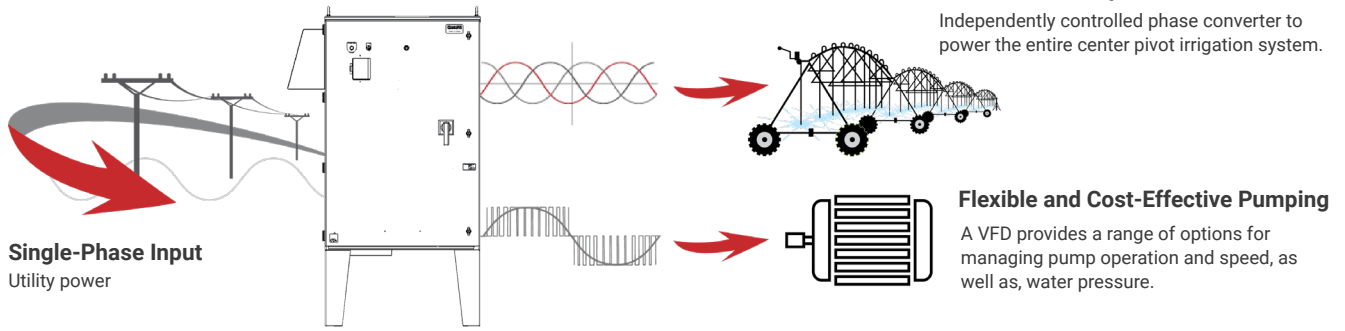
Phase Technologies guarantees that the **LH** SERIES product line will meet the IEEE 519-2014 standard as long as a minimum load of 50% is maintained as related to the max current rating of the system. If a system does not comply, Phase Technologies will either offer a suitable fix to bring the panel into compliance or offer a full refund for the purchase price of the panel upon return.



AUXPOWER™ Power Your Pivot & Pump With A Single System

1LH
SERIES

Phase Technologies has designed a cutting-edge VFD specifically for center pivot irrigation applications. It provides speed control of the main pump and powers your pivot controls simultaneously.



A Revolution In Phase Conversion For Center Pivot Irrigation

Compared to legacy rotary phase converters, **AUXPOWER™** delivers superior voltage balance, greater efficiency, and improved reliability.

Superior Heat Rejection

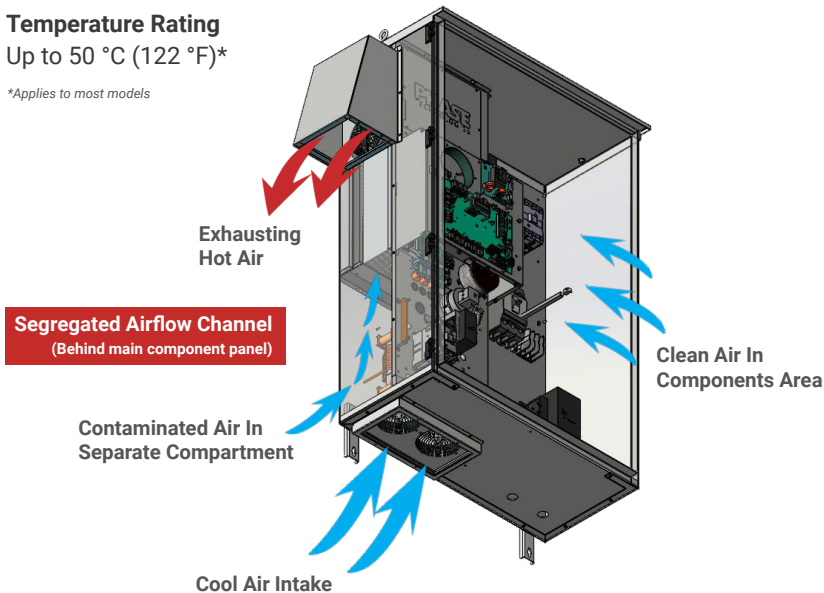
Indirect Cooling

Our innovative cooling design utilizes outside air in a separate compartment segregated from sensitive electronics. It eliminates the risk of contaminated air entering the electronics areas and ultimately prolongs the life and improves the efficiency of internal components.

Temperature Rating

Up to 50 °C (122 °F)*

*Applies to most models

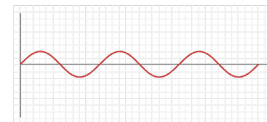


Voltage Doubling

Significant Installation Cost Savings

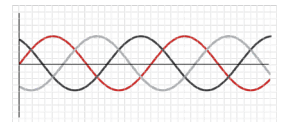
Input

240 V Single-Phase



Output

480 V Three-Phase



Designed For Deep Set Wells & Long Lead Applications

- Significantly reduce installation costs
- Smaller motor cable & well size requirements
- Voltage control for deep wells



American Made & Built To Last

Standard Lead Time: 3-10 Business Days

AUXPOWER™
(Performance (P) Models Only)

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HP	Enclosures E S P	Rated Voltage Input Output	Rated Current Input Output	Rated Input Current C X	Weight (lbs.)* E S P	Weight (lbs.)* P		
				C Model: 18 A Output X Model: 32 A Output				
5 HP	E	240 V 240 V	26 A 18 A		100 lbs			
		240 V 480 V	26 A 9 A		100 lbs			
		480 V 480 V	13 A 9 A		100 lbs			
7.5 HP	E	240 V 240 V	37 A 24 A		110 lbs			
		240 V 480 V	37 A 13 A		100 lbs			
		480 V 480 V	19 A 13 A		100 lbs			
10 HP	E	240 V 240 V	48 A 31 A		130 lbs			
		240 V 480 V	50 A 18 A		n/a		100 lbs	n/a
		480 V 480 V	26 A 18 A		100 lbs		n/a	
15 HP	E	240 V 240 V	72 A 46 A		130 lbs			
		240 V 480 V	67 A 24 A		120 lbs			
		480 V 480 V	36 A 24 A		130 lbs			
20 HP	E S P	240 V 240 V	97 A 61 A		130 lbs			
		240 V 480 V	97 A 31 A		149 A 191 A		150 lbs 205 lbs 490 lbs	570 lbs
25 HP	E	480 V 480 V	48 A 31 A	74 A 98 A	130 lbs 205 lbs 570 lbs	590 lbs		
		240 V 480 V	115 A 38 A	n/a	130 lbs	n/a		
30 HP	E S P	480 V 480 V	60 A 38 A	n/a	130 lbs	n/a		
		240 V 480 V	139 A 46 A	191 A 252 A	220 lbs 540 lbs	760 lbs		
40 HP	S P	480 V 480 V	72 A 46 A	98 A 124 A	130 lbs 215 lbs 570 lbs	590 lbs		
		240 V 480 V	196 A 61 A	248 A n/a	465 lbs 810 lbs	840 lbs		
50 HP	S P	480 V 480 V	98 A 61 A	124 A 147 A	235 lbs 580 lbs	600 lbs		
		240 V 480 V	226 A 77 A	n/a	910 lbs	n/a		
60 HP	S P	480 V 480 V	121 A 77 A	147 A 169 A	200 lbs 590 lbs	610 lbs		
		480 V 480 V	143 A 91 A	169 A 196 A	410 lbs 610 lbs	640 lbs		
75 HP	S P	480 V 480 V	170 A 107 A	196 A 252 A	415 lbs 820 lbs	850 lbs		
100 HP	S P	480 V 480 V	226 A 142 A	252 A n/a	465 lbs 900 lbs	940 lbs		
125 HP	P	480 V 480 V	273 A 172 A	n/a	855 lbs	n/a		

Enclosure Options

E = Enterprise
NEW! - Compact & versatile enclosure

S = Signature
Slimmer & lighter enclosure

P = Performance
Full-size enclosure & room for integration

*Weights are approximate and vary based on the VFD configuration

508A Panel Shop Options

- MCCB Service Disconnect
- HOA Switch
- Speed Potentiometer
- Sinewave Filter
- dV / dt Filter
- Strikesorb® Surge Protection
- ProTec® Surge Protection

Scan to download all 1LH materials electronically

